

Notice of Allowability

Application No.

10/723,711

Examiner

James W. Cranson

Applicant(s)

MARTIN ET AL.

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/07/2006.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Amendment

Applicant canceled claims 11-16 and added new claims 23-26 in the amendment filed 04/07/2006.

Response to Arguments

Applicant's arguments, see amendment and remarks, filed 04/07/2006, with respect to Office Action mailed 01/12/2006 have been fully considered and are persuasive. The rejection of claims 1-22 has been withdrawn.

Allowable Subject Matter

Claims 1-26 are allowed.

The following is an examiner's statement of reasons for allowance: Instant invention claims and discloses a light emitting diode lamp that includes an optical reflector, a heat sink, fan, motor, a shell, a space between optical reflector and the shell, that the fan moves air over the heat sink through the space and a screw type electrical contact base coupled to the shell.

Regarding claim 1:

An apparatus comprising: a shell; an optical reflector disposed at least partially within the shell, wherein a space is formed between the optical reflector and the shell; at least one light emitting diode disposed within the optical reflector; a heat sink disposed at least partially within the shell, the light emitting diode being mounted to the heat sink; and a motor and a fan in flow communication with the space, the fan being configured to move air over the heat sink and through the space and a screw type electrical contact base coupled to the shell.

Art Unit: 2875

The primary art of record, 6,719,558 to Cao, 6,227,686 to Takahashi and 6,635,99 do not teach or suggest a screw type electrical base coupled to the shell.

Claims 2-9, 23 and 24 depend directly or indirectly from claim 1, add further limitations and are allowable for the same reasons.

Regarding claim 10:

Claim 10 has been made independent by incorporating the subject matter of originally filed claim 1 to the limitation “ a hollow neck coupled to the shell and a base coupled to the hollow neck, motor and fan within the base.

The primary art of record, 6,719,558 to Cao, 6,227,686 to Takahashi and 6,635,99 do not teach or suggest a hollow neck coupled to the shell and a base coupled to the hollow neck, motor and fan within the base.

Regarding claim 17:

An apparatus comprising: a light emitting diode; an optical reflector that controls the direction of light emitted from the light emitting diode; a heat sink, the light emitting diode being mounted on the heat sink; a fan for moving air over the heat sink; and an air flow channel through which the fan moves air, the air flow channel follows the general outline of the optical reflector, and a screw type electrical contact base coupled to the shell.

The primary art of record, 6,719,558 to Cao, 6,227,686 to Takahashi and 6,635,99 do not teach or suggest a screw type electrical base coupled to the shell.

Claims 18, 21, 25 and 26 depend from claim 17, ad further limitations and are allowable for the same reasons as claim 17.

Regarding claim 19:

Art Unit: 2875

Claim 19 was indicated as having allowable subject matter in prior Office Action.

The limitation “an exterior shell in which optical reflector is at least partially, the air flow channel is further defined by exterior shell” is not taught or suggested by the prior art of record.

Claim 20, depends from claim 19, adds further limitations and is allowable for the same reasons as claim 19.

Regarding claim 22:

An apparatus comprising:

a light emitting diode;

an optical reflector that controls direction of light emitted from light emitting diode;

a heat sink, light emitting diode mounted on heat sink;

a fan moves air over heat sink and air flow channel that fans moves air, air flow channel follows outline of optical reflector

a hollow support element that is coupled to the optical reflector and heat sink, wherein the hollow support element defines a portion of the air flow channel; and

a base coupled to hollow support element, fan is in the base.

The combination of claimed limitations is not taught or suggested by the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure are USPN 6,746,885 to Cao, USPN 6,955,440 to Niskanen, USPN 5,806,965 to Deese and USPN 6,793,374 to Begemann.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Cranson whose telephone number is 571-272-2368. The examiner can normally be reached on Mon-Fri 8:30A.M.- 5:00P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandy O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.




Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800